

## **ACTIVE NOISE CONTROL USING A SINGLE SENSOR INPUT**

### **ABSTRACT OF THE DISCLOSURE**

An active noise control system (20) includes a controller (34) that receives a signal from a single pressure sensor (36). The controller (34) estimates an engine speed of an engine (30) and a throttle position of a throttle valve associated with an air intake manifold (32). The controller (34) generates a noise control signal that drives a speaker (38), which responsively generates a noise attenuation signal. The disclosed embodiment may be used in an after-market product as it requires minimal interfacing with other vehicle electronics.

Fig. 1

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